

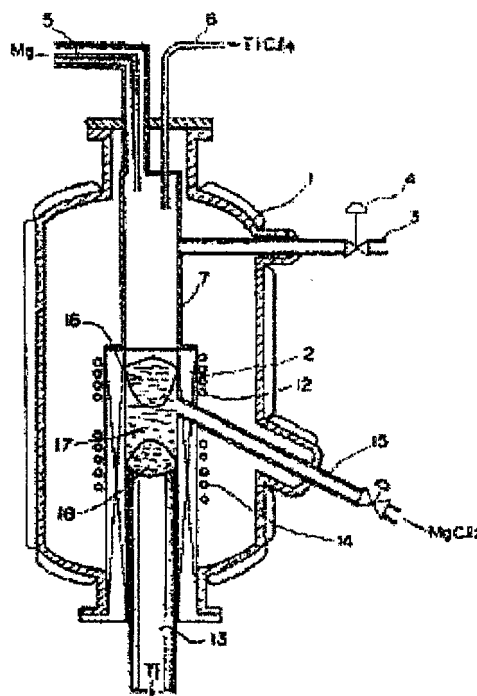
PRODUCTION OF METALLIC TITANIUM

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Abstract of JP1036733

PURPOSE:To effectively bring titanium tetrachloride into reductive reaction with a reductant by retaining the reaction area to the prescribed temp. and pressure, thereby suppressing the boiling of the reductant metal and reductant metallic chloride, at the time of reducing titanium tetrachloride with the reductant metal and producing metallic titanium. **CONSTITUTION:**Titanium tetrachloride is supplied into a reactor 2 provided with electro-magnetic induction heating means 12 from a supplying tube 6 and the reductant is supplied therein from a supplying tube 5. Inside of said reactor 2, temp. is retained to the melting point or above of metallic titanium, and titanium tetrachloride and the reductant are brought into contact therewith under the vapor pressure or above of the reductant metal. Said by-produced reductant metallic chloride 17 and molten generated metallic titanium 18 are separated by floating and sinking. Said titanium 18 is continuously extracted from the reactor 2 as cooled and solidified.



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